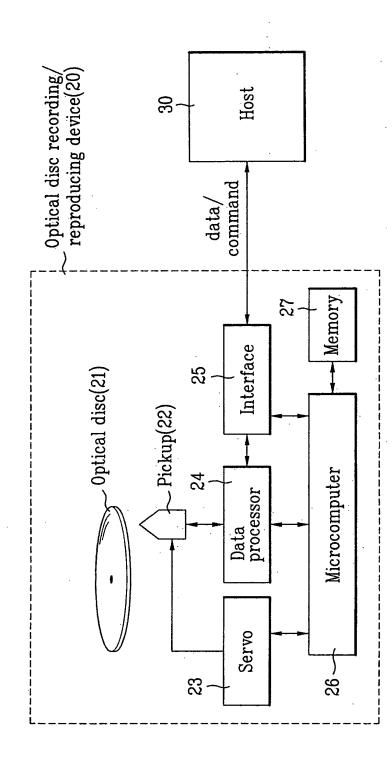


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BD-RE Data Area User Data Area Rec 3 Rec 2 Rec 1 LIA DMA ISA OSA LOA ISA : Inner Spare Area OSA: Outer Spare Area Defect Data DDS & DFL ISA **OSA** DFL Defect_Entry #1 Defect_Entry #2 Defect_Entry #3 Replacement Data Defect_Entry #4 (No replacement Data) Defect_Entry #n Fixed Size(4 Clusters)

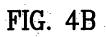


က FIG.

FIG. 4A

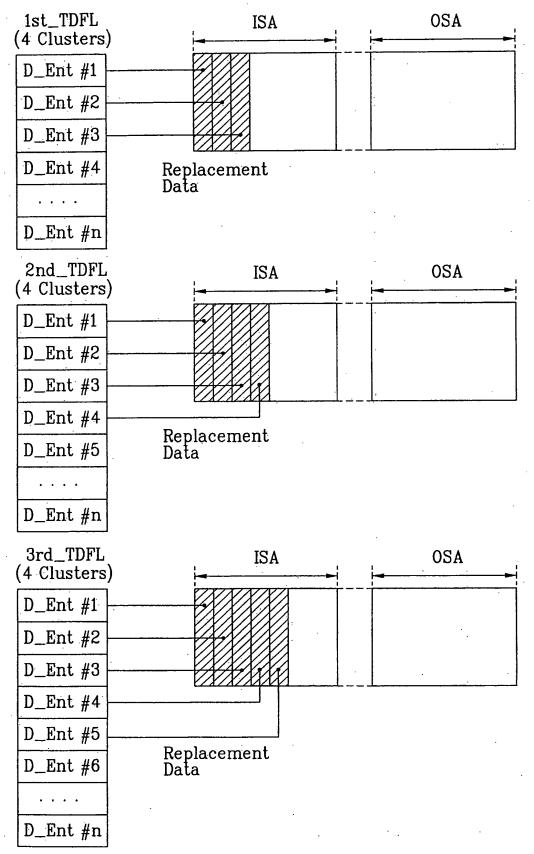
Single Layer BD-WO

	Layer 0	L1A	Data Area	LOA	
--	---------	-----	-----------	-----	--

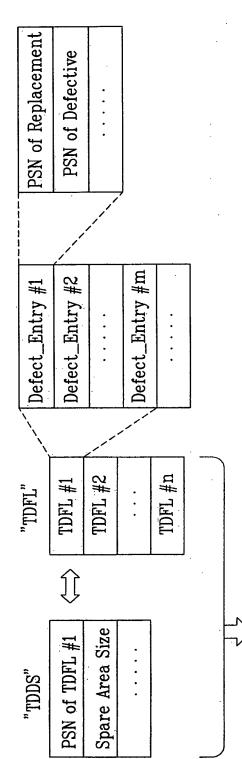


Dual Layer BD-WO

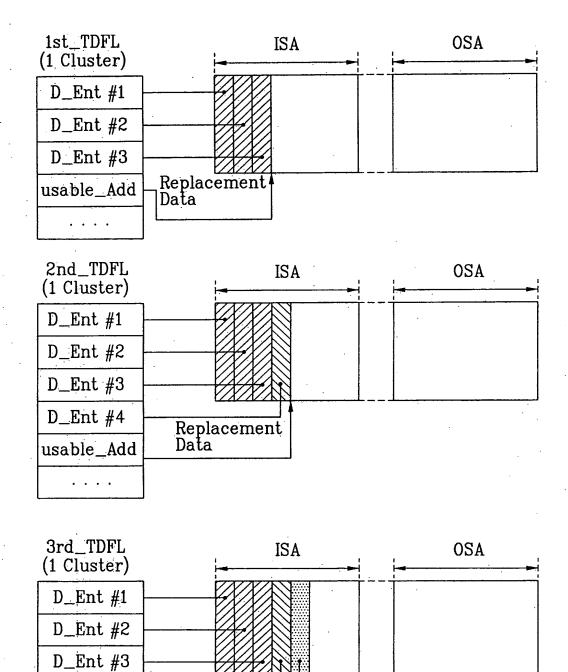
•		· · · · · · · · · · · · · · · · · · ·	
Layer 0	L1A	Data Area	Outer Zone
• •			
Layer 1	LOA	Data Area	Outer Zone



Cluster Cluster #4 #2 LOA Rec(S12) OSA Rec(S14) Cluster Cluster #5 #6 Data Area User Data Area Rep(S15) FIG. 6 DVU #n Cluster Cluster Cluster Cluster #1 // #2// #3 // #4 // Rep(S13) Rec(S10) Recording 1 DVU #2 Rep(S11) TDFL Area "TDFL" "TDDS" (Reserved) BD-WO "DDS & DFL" (DMA) LIA



"DDS & DFL" (DMA)



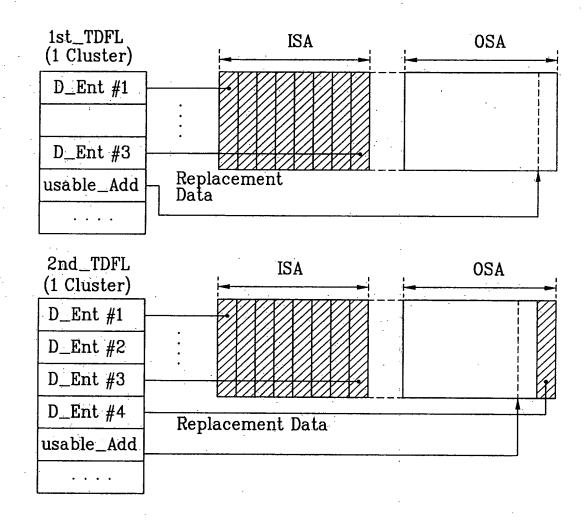
Replacement Data

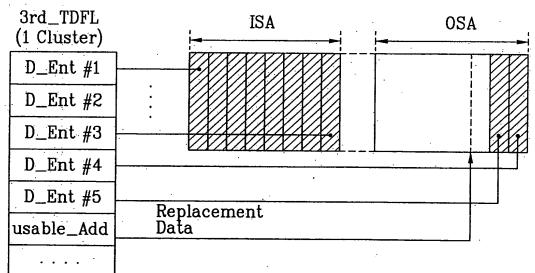
D_Ent #4

D_Ent #5

usable_Add

• • • •

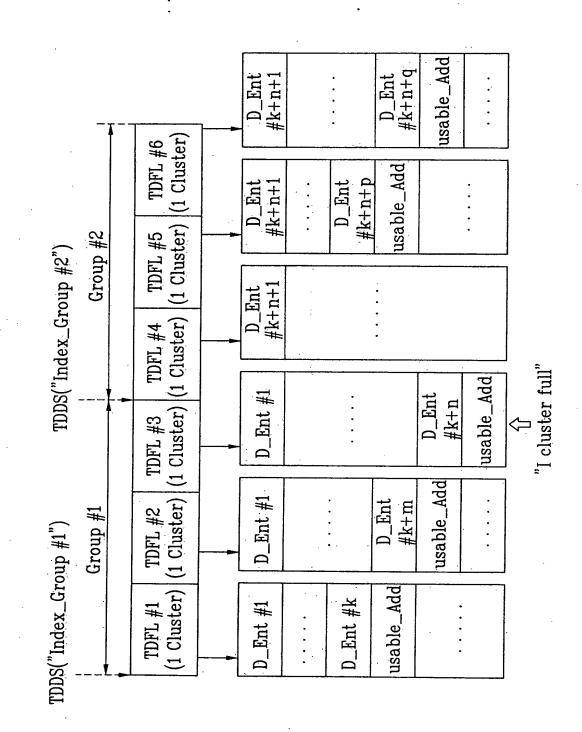




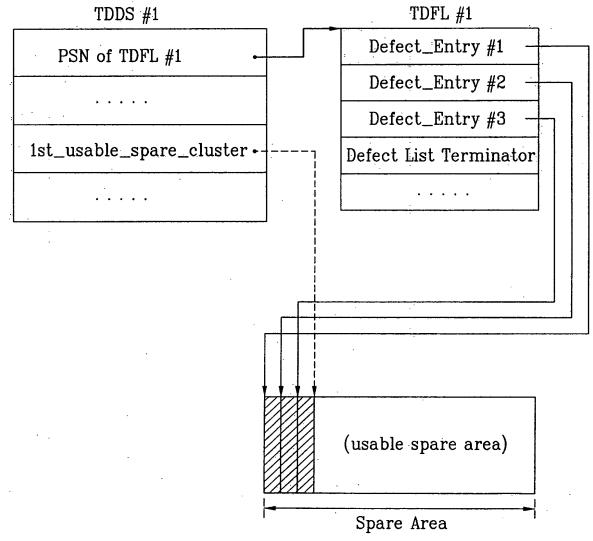
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TDFL #5 (2 Clusters) usable_Add D_Ent #1 D_Ent #k+p TDFL #4 (2 Clusters) "1 Cluster Full" |usable_Add D_Ent #1 D_Ent #k+p usable_Add D_Ent #1 D_Ent #k+n usable_Add D_Ent #1 D_Ent #k+m • usable_Add D_Ent #k D_Ent #1 •.







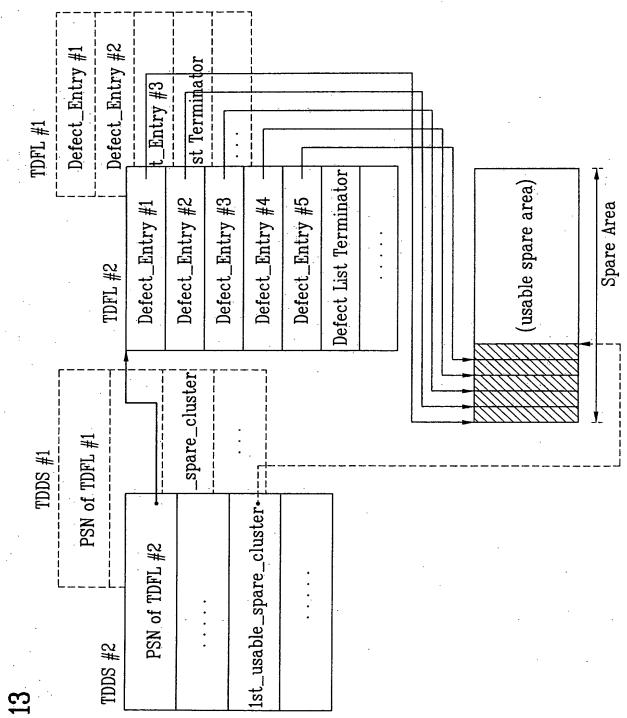


FIG.]



